

Title (en)
Reflow furnace.

Title (de)
Aufschmelzofen.

Title (fr)
Four à reflux.

Publication
EP 0307319 A2 19890315 (EN)

Application
EP 88402276 A 19880909

Priority
JP 22785887 A 19870911

Abstract (en)
A tunnel-type reflow furnace (10) comprising a preliminary heating zone and a main heating zone with at least two pairs of infrared heaters (12) of a gas blowing type disposed on both the top and bottom of a tunnel providing a pathway for the transfer of an article to be heated. In a preferred embodiment, a gas-blowing nozzle (20) that is freely adjustable in the direction of gas blowing is provided between infrared heaters (12) on both the top and bottom of the tunnel. The furnace (10) ensures reliable soldering of the circuit board.

IPC 1-7
F27B 9/06; **F27B 9/10**; **H05B 3/00**

IPC 8 full level
B23K 1/005 (2006.01); **B23K 1/008** (2006.01); **B23K 1/012** (2006.01); **F27B 9/06** (2006.01); **F27B 9/10** (2006.01); **F27B 9/30** (2006.01); **H05K 3/34** (2006.01)

CPC (source: EP US)
B23K 1/008 (2013.01 - EP US); **F27B 9/066** (2013.01 - EP US); **F27B 9/10** (2013.01 - EP US); **F27B 9/3005** (2013.01 - EP US)

Cited by
US6345757B1; SG92629A1; EP1106294A3; EP1061317A1; FR2794632A1; CN1092017C; CN101972876A; EP0756442A3; US6503080B1; US11697168B2; US6780225B2; WO9119587A1; WO2019204623A1; WO9111284A1; US6412681B2; US6761301B2; EP3781886B1; WO03099502A1; WO2004069461A1; WO9700752A1

Designated contracting state (EPC)
CH DE FR GB IT LI

DOCDB simple family (publication)
EP 0307319 A2 19890315; **EP 0307319 A3 19900328**; **EP 0307319 B1 19940615**; DE 3850195 D1 19940721; DE 3850195 T2 19941215; JP H0442113 B2 19920710; JP S6471571 A 19890316; US 5039841 A 19910813

DOCDB simple family (application)
EP 88402276 A 19880909; DE 3850195 T 19880909; JP 22785887 A 19870911; US 24648788 A 19880912